## AMENDMENTS TO THE CLAIMS

## Claims Listing

This listing of the claims will replace all prior versions, and listings, of claims in the application:

 (Currently amended) A method of detecting cancer-associated antitumor autoantibodies in a sample from an individual, comprising:

contacting the sample with an immunoassay reagent; and detecting a presence of complexes formed by specific binding of the immunoassay reagent to any cancer-associated anti-tumor autoantibodies present in the sample,

wherein the immunoassay reagent comprises one or more tumor marker proteins prepared from a bodily fluid, derived from a body cavity or space in which a tumor is or was present or associated with in one or more cancer patients wherein said one or more tumor marker proteins exhibit selective reactivity with cancer-associated anti-tumor autoantibodies, and wherein detection of complexes indicates the presence of cancer-associated anti-tumor autoantibodies in the individual.

- 2. (Previously presented) The method of Claim 1, further comprising detecting and/or quantitatively measuring the presence of two or more types of autoantibodies, wherein each one of the two or more types of the autoantibodies is immunologically specific to a different tumor marker protein or to different epitopes of the same tumor marker protein, wherein the immunoassay is carried out using a panel of two or more immunoassay reagents, at least one of which comprises the tumor marker protein of Claim 1.
- (Previously presented) The method of Claim 1, wherein the sample is a
  bodily fluid obtained from a patient in need of detection or diagnosis of cancer, and wherein
  detection of the presence of an elevated level of the anti-tumor autoantibodies in the sample,

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as compared to a sample from a normal control, indicates that the patient in need of detection or diagnosis of cancer has or is developing a cancer.

- 4. (Previously presented) The method of Claim 1, wherein the sample is a sample of a bodily fluid obtained from a patient in need of monitoring of progress of cancer or other neoplastic disease, and wherein detection of the presence of an elevated level of the anti-tumor autoantibodies in the sample, as compared to a sample from a normal control, indicates the progress of cancer or other neoplastic disease in the patient in need of monitoring of progress of cancer or other neoplastic disease.
- 5. (Previously presented) The method of Claim 1, wherein the sample is a bodily fluid obtained from an asymptomatic subject, and wherein detection of the presence of an elevated level of the anti-tumor autoantibodies in the sample, as compared to a sample from a normal control, indicates early neoplastic or early carcinogenic change in the asymptomatic subject.
- 6. (Previously presented) The method of Claim 1, wherein the sample is a bodily fluid obtained from an asymptomatic human subject selected from a population of asymptomatic human subjects in need of a screening for a risk of developing cancer, and wherein detection of the presence of an elevated level of the anti-tumor autoantibodies in the sample, as compared to a normal control, identifies the asymptomatic subject as being at risk of developing cancer.
- 7. (Previously presented) The method of Claim 1, wherein the sample is a bodily fluid obtained from a cancer patient in need of monitoring a response of the cancer patient to an anti-cancer treatment, and wherein the presence of a decreased level of the anti-tumor autoantibodies in a sample after the anti-cancer treatment as compared to the level of the anti-tumor autoantibodies in a sample before the anti-cancer treatment indicates that the patient has responded positively to the treatment.

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8. (Previously presented) The method of Claim 1, wherein the sample is a bodily fluid obtained from a patient in need of detection of a recurrent disease, wherein the patient was previously diagnosed as having cancer and has undergone anti-cancer treatment to reduce amount of cancer, and wherein presence of an increased level of autoantibodies in the patient, as compared to a normal control, indicates that the cancer has recurred.

Claims 9-10. (Cancelled)

- (Previously presented) The method of Claim 1, wherein the bodily fluid is ascites fluid, pleural effusion, seroma, hydrocoele or wound drainage fluid.
- (Previously presented) The method of Claim 3, wherein the bodily fluid is ascites fluid, pleural effusion, seroma, hydrocoele or wound drainage fluid.

Claims 13-14, (Cancelled)

- (Withdrawn) The method according to claim 11, wherein the tumor marker protein is selected from MUC1, MUC16 or c-myc.
- (Withdrawn) The method according to claim 12, wherein the tumor marker protein is selected from MUC1, MUC16 or c-myc.
- (Withdrawn) The method according to any one of claims 1, 2, or 10, wherein the tumor marker protein is selected from c-erbB2, p53, ras, BRCA1, BRCA2, APC, PSA, CEA, and CA19.9.

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18. (Withdrawn) The method according to claim 3, wherein the tumor marker protein is selected from c-erbB2, p53, ras, BRCA1, BRCA2, APC, PSA, CEA and CA19.9.

Claims 19-38. (Cancelled)